

1/30

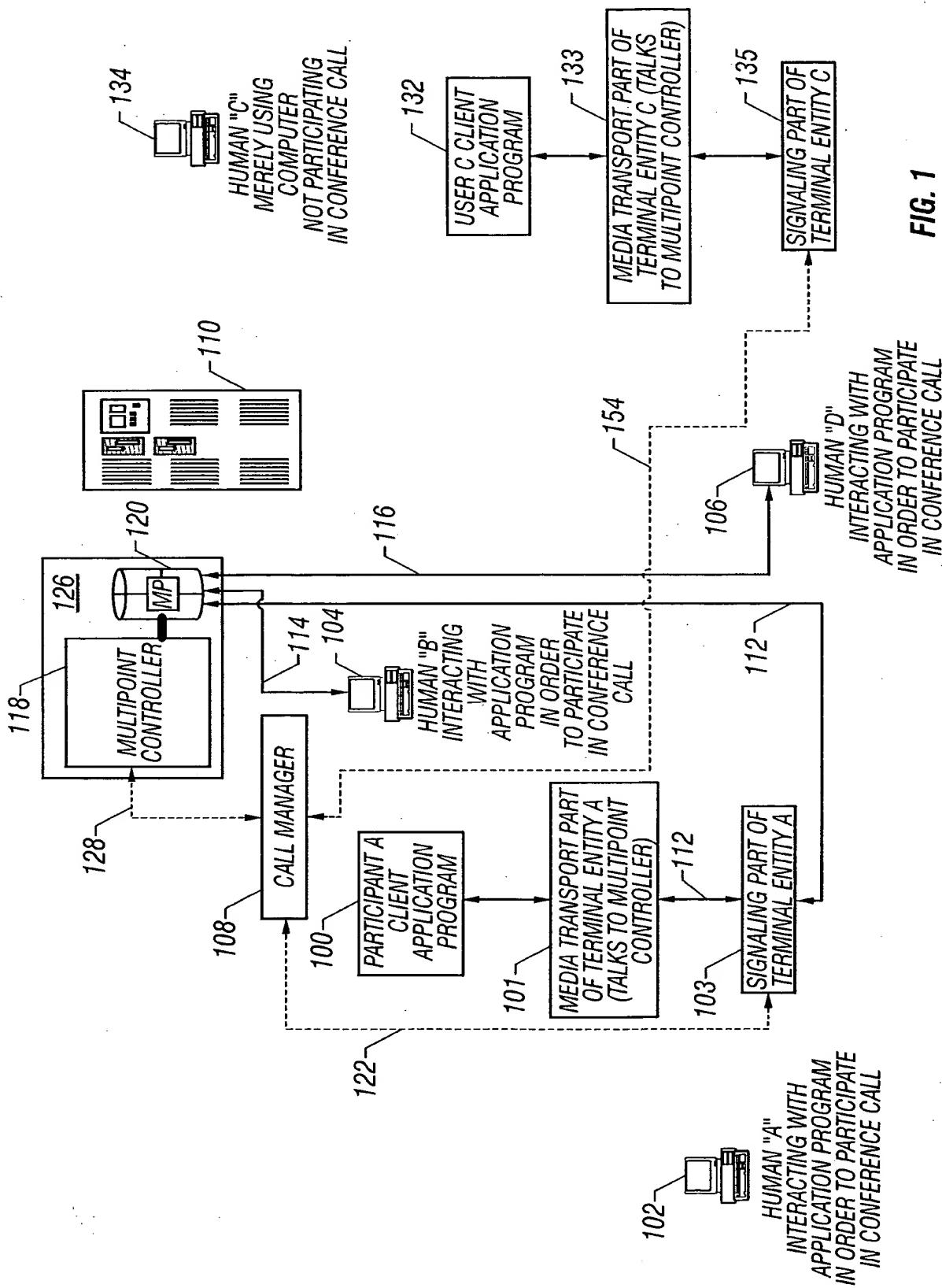


FIG. 1

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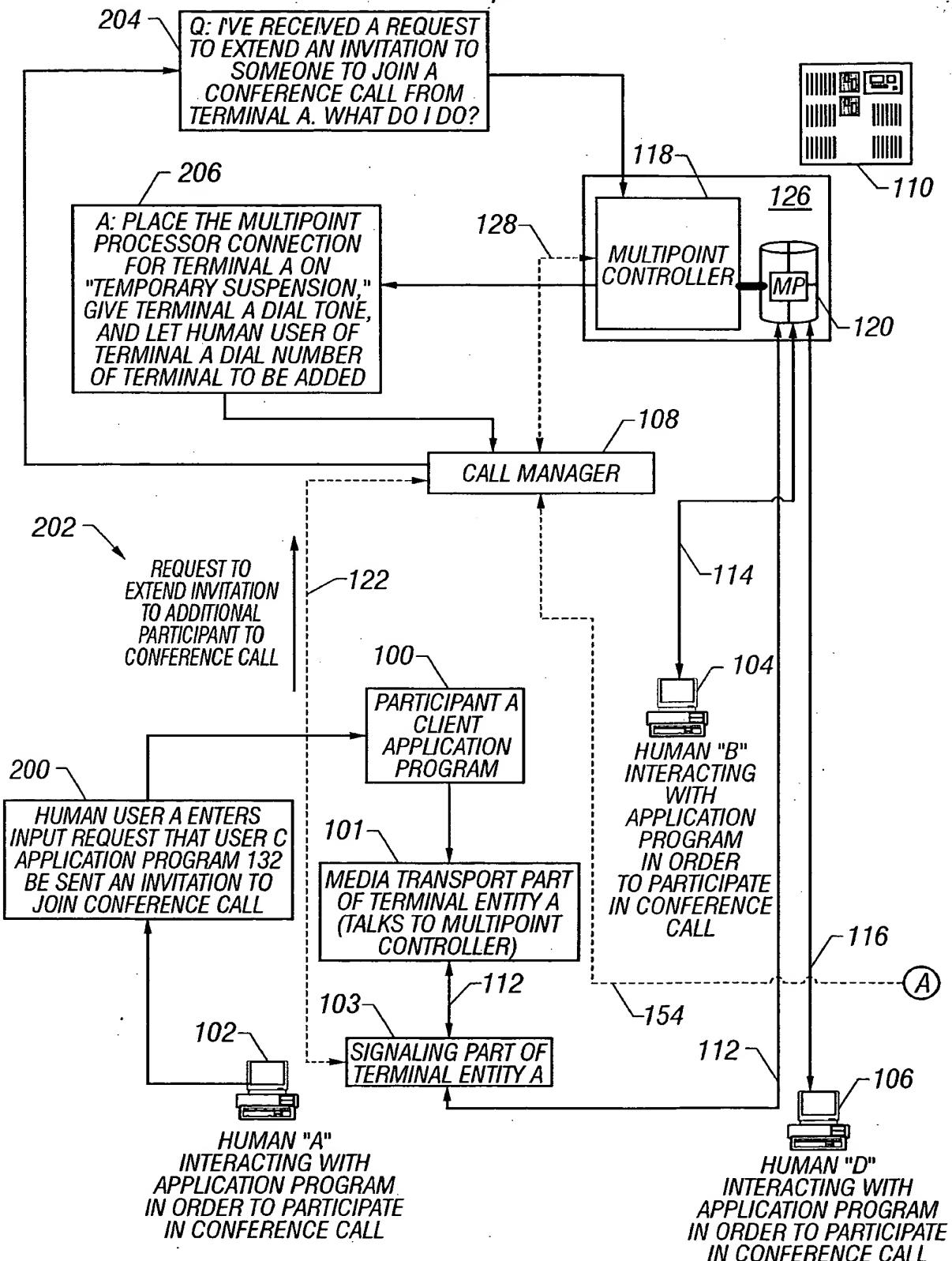


FIG. 2A

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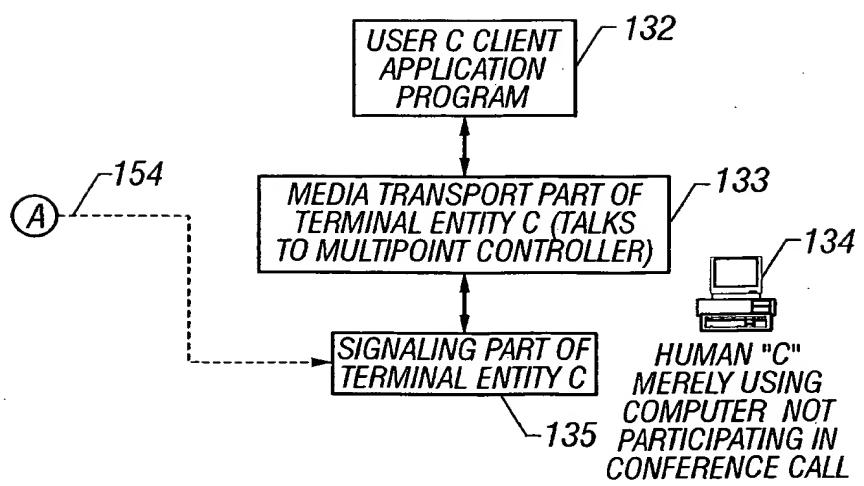


FIG. 2B

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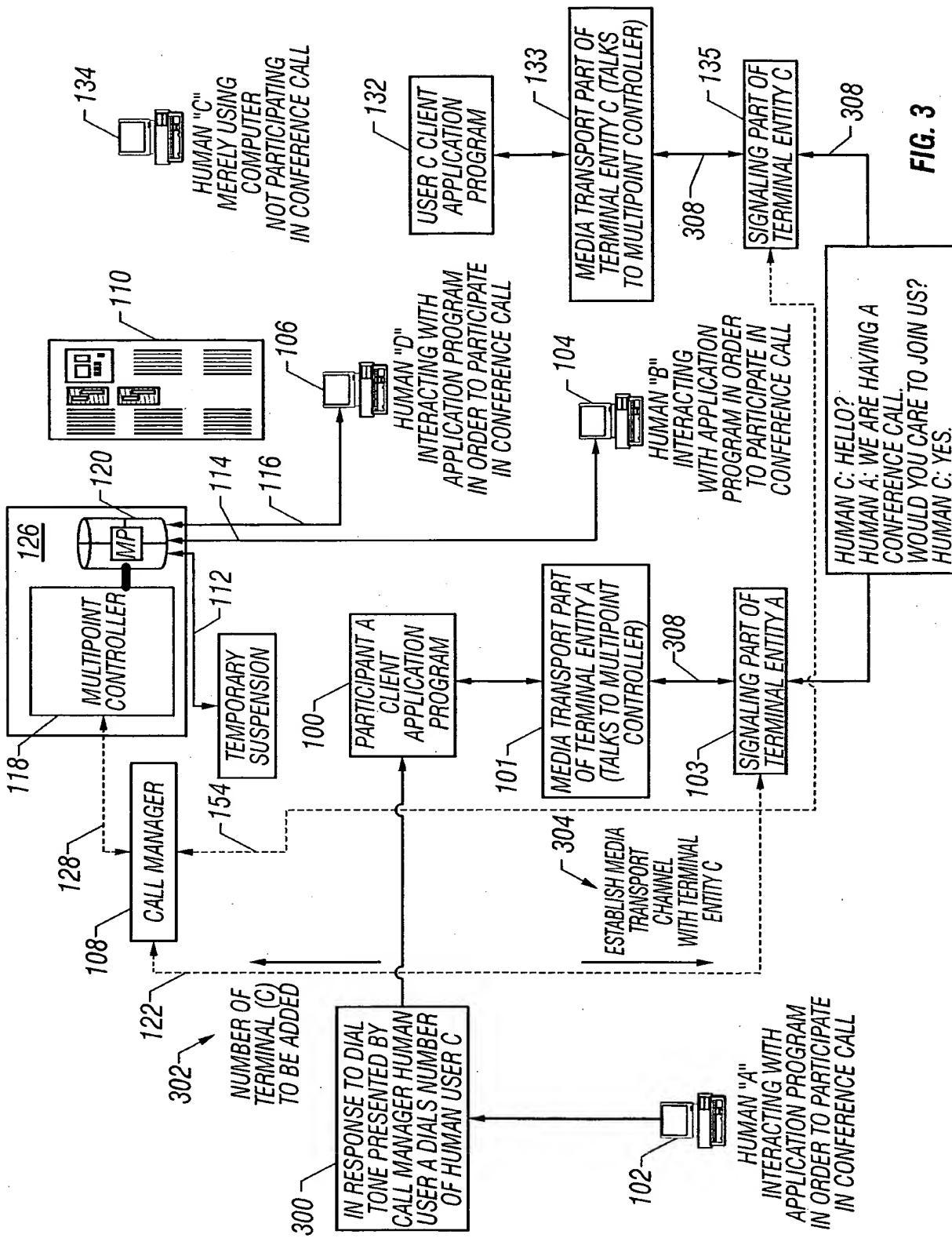


FIG. 3

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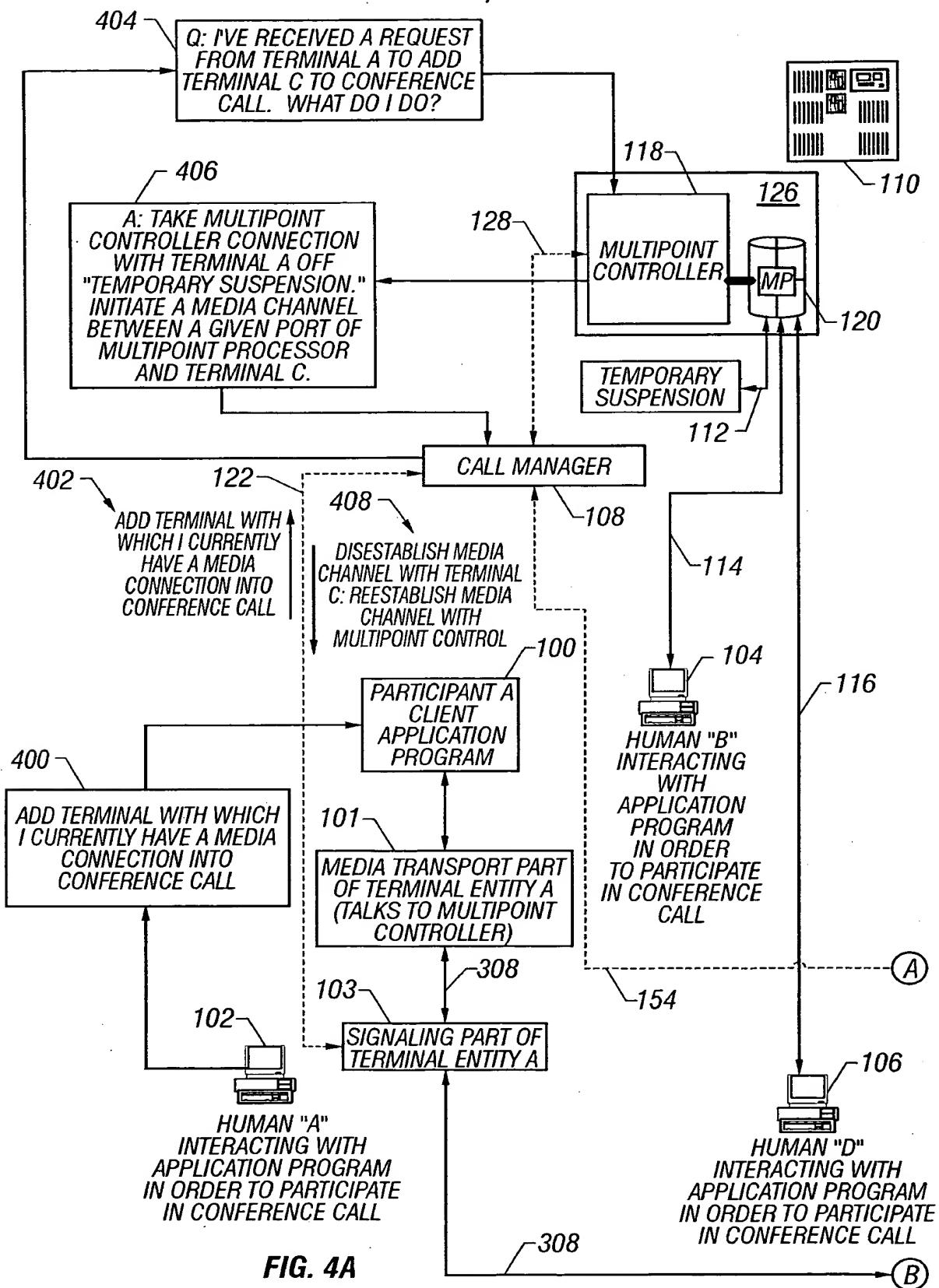


FIG. 4A

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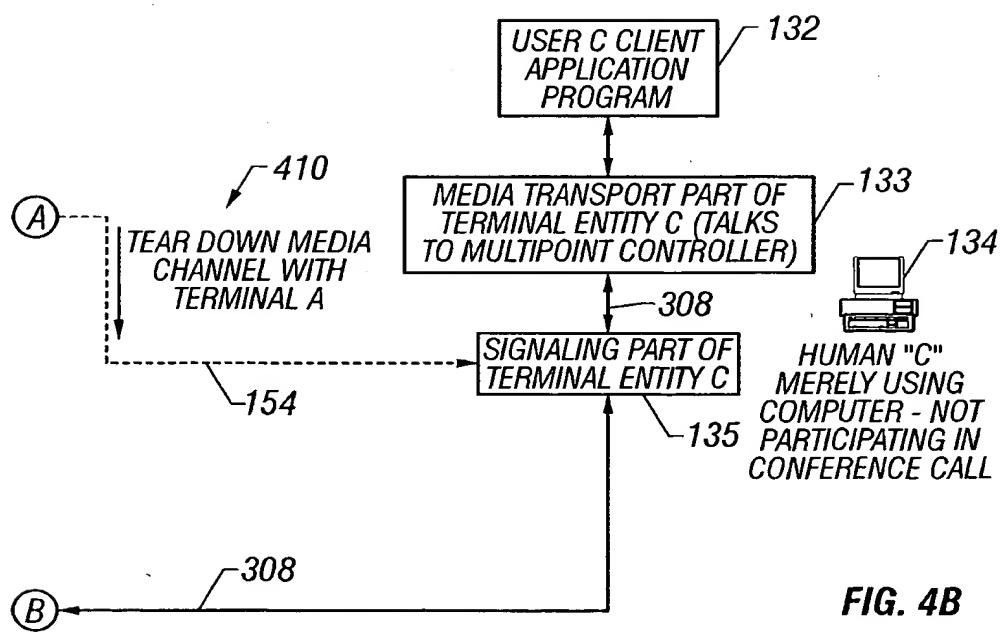


FIG. 4B

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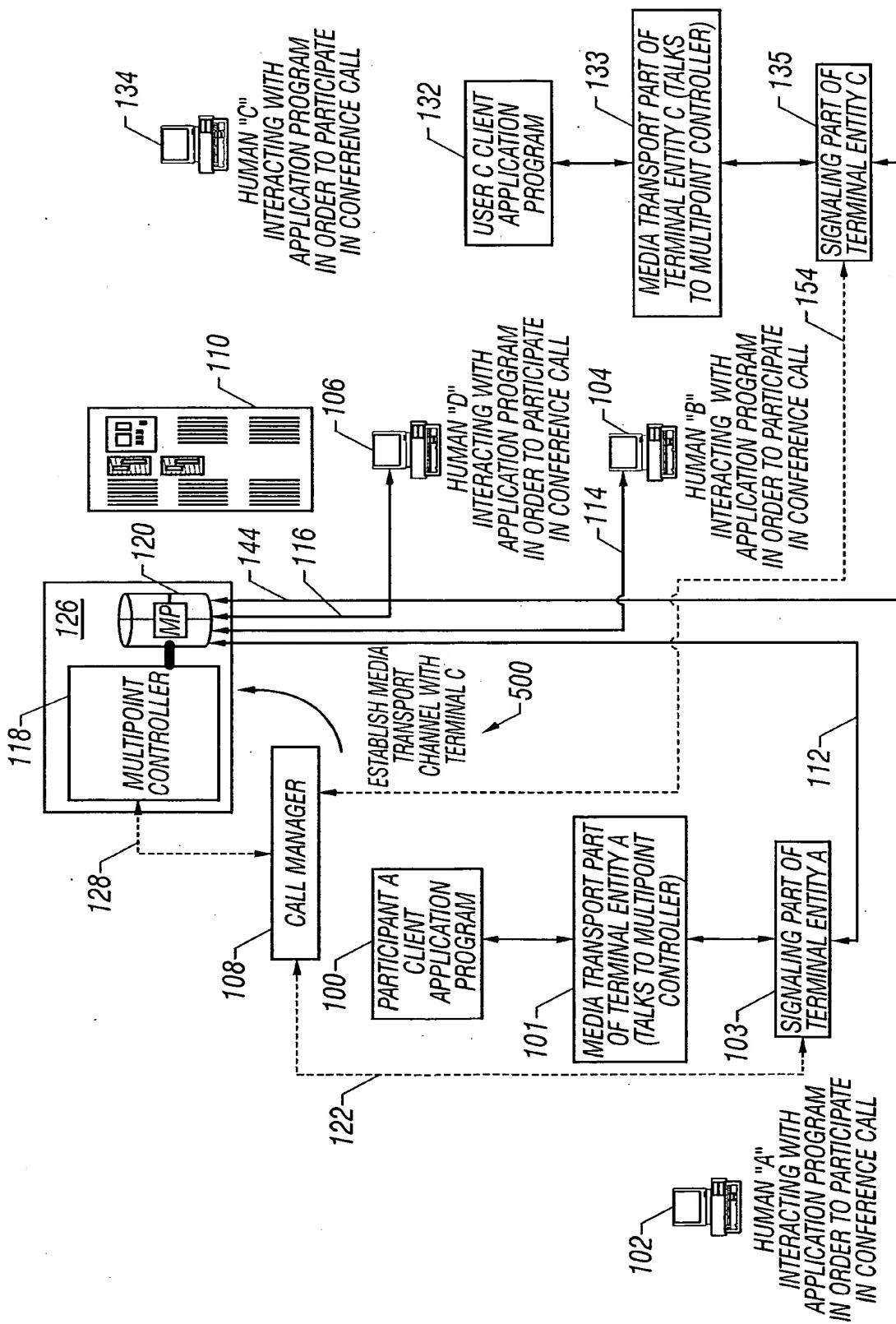


FIG. 5

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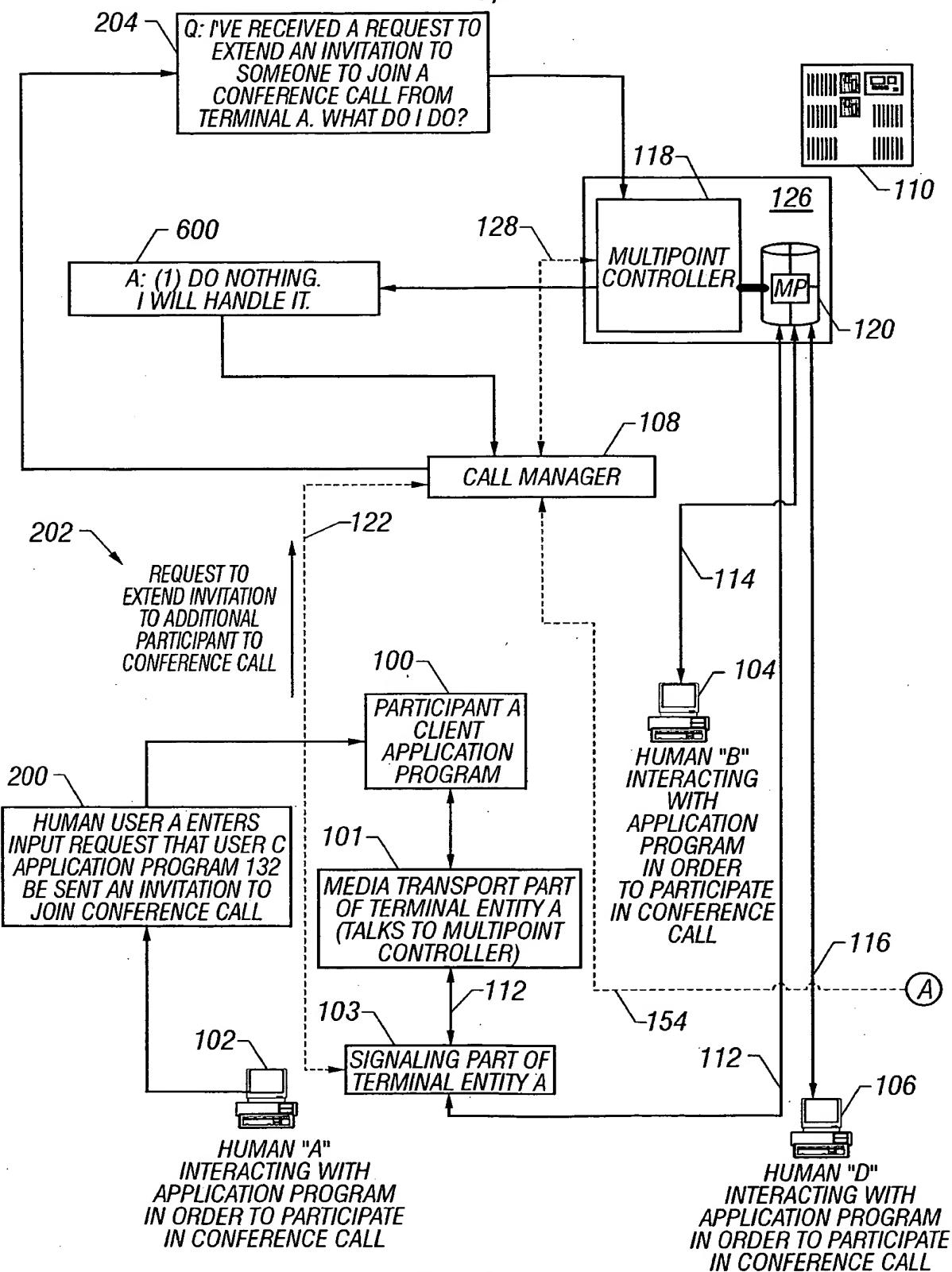


FIG. 6A

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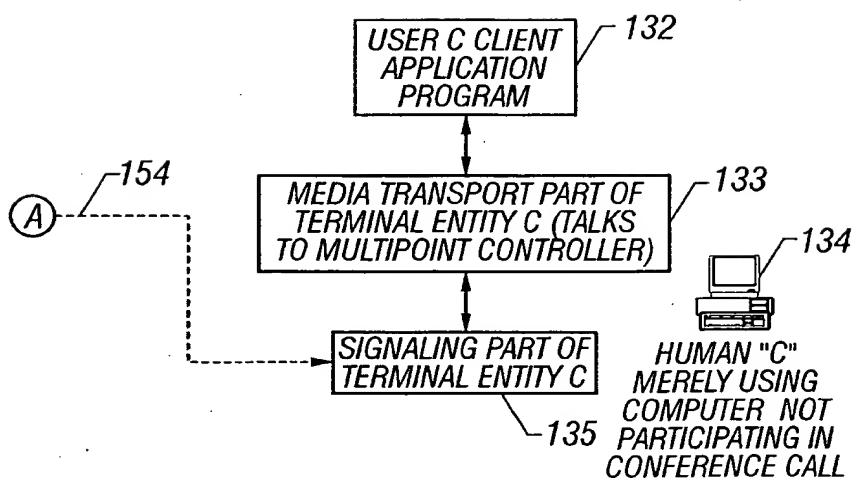
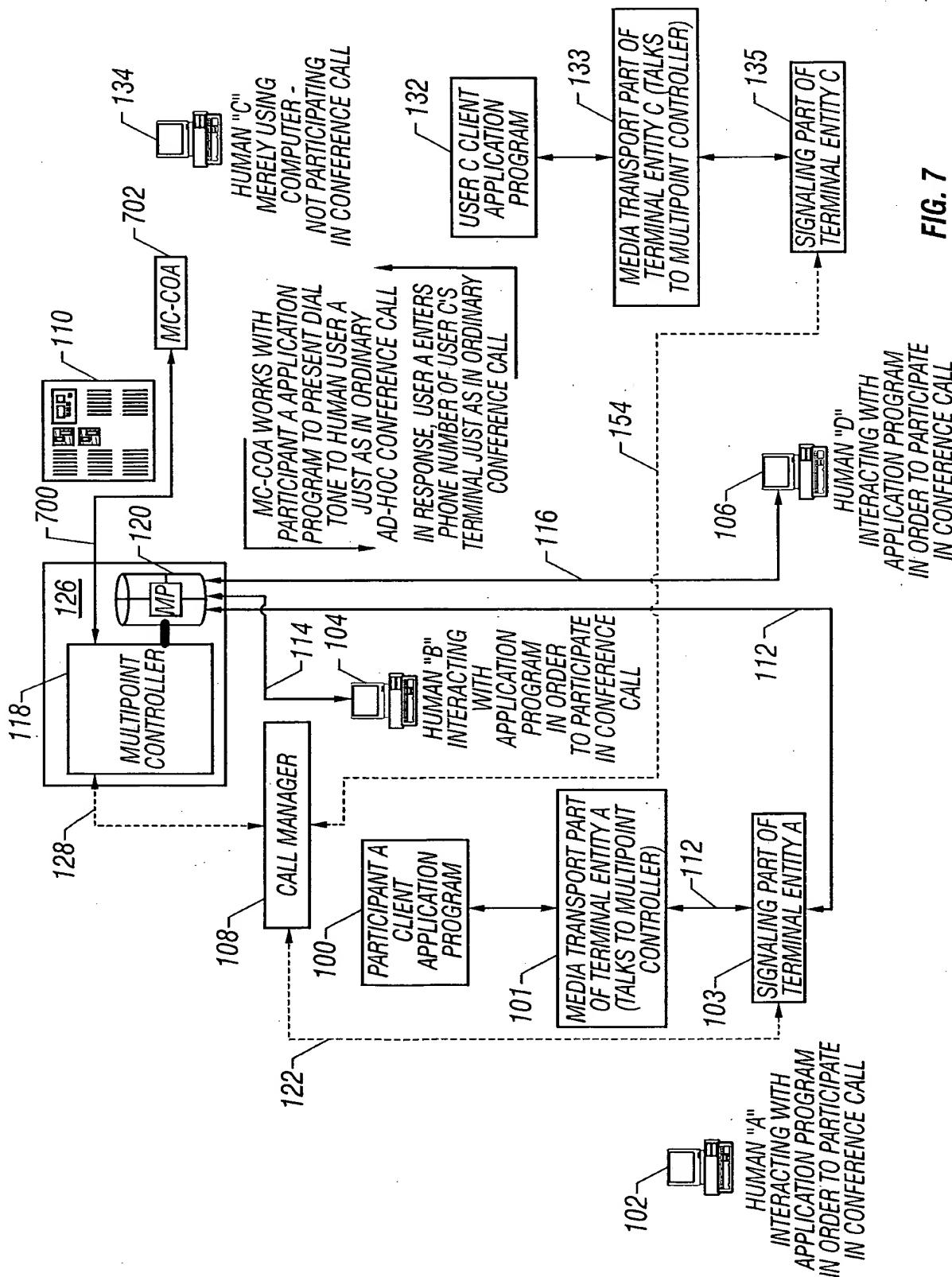


FIG. 6B

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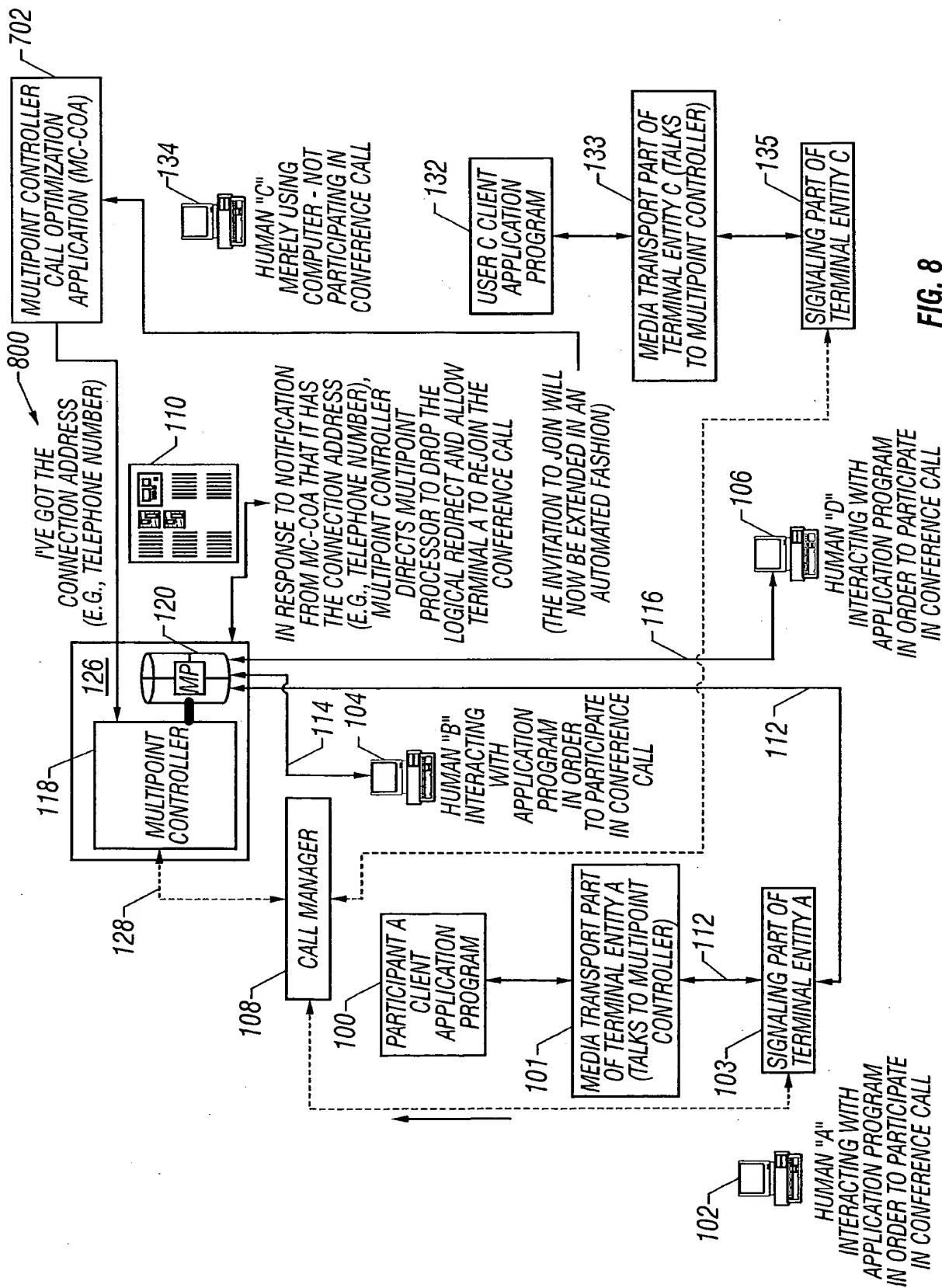


FIG. 8

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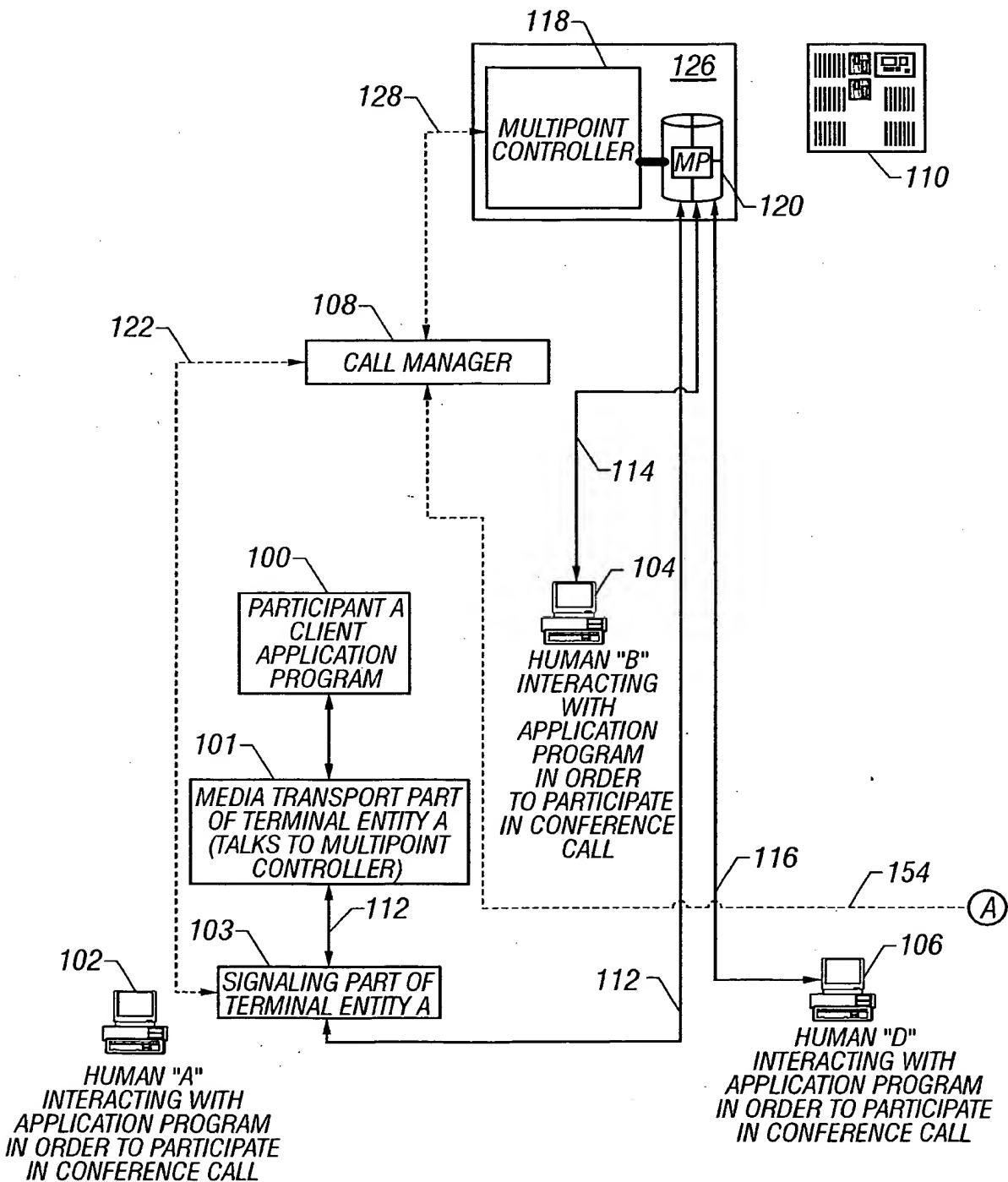


FIG. 9A

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902

702
MULTIPOINT CONTROLLER
CALL OPTIMIZATION
APPLICATION (MC-COA)

DIRECTORY TO ASSOCIATE CONNECTION
ADDRESSES (E.G., TELEPHONE NUMBERS)
OF TERMINALS TO BE ADDED TO CONFERENCE
CALL WITH NON-MEDIA-TRANSPORT-CHANNEL
-SUPPORTING CONNECTION ADDRESSES (E.G.,
DIFFERENT TYPE PROTOCOL NETWORK
ADDRESSES) OF A COMPUTER HAVING THE
TERMINALS TO BE ADDED (E.G., RESOLVE
TELEPHONE NUMBER OF TERMINAL ENTITY C
TO THE IP ADDRESS OF COMPUTER 134
HOUSING NETWORK TERMINAL ENTITY C
AND/OR AN INSTANT MESSAGING SERVICE
IDENTIFIER)

900
SUBSEQUENT TO MC-COA RECEIVING CONNECTION ADDRESS
(E.G., TELEPHONE NUMBER) FOR TERMINAL C FROM TERMINAL A,
ASSOCIATE RECEIVED CONNECTION ADDRESS
(E.G., TELEPHONE NUMBER) WITH A CORRESPONDING NON-MEDIA
-TRANSPORT-CHANNEL-SUPPORTING CONNECTION ADDRESS ON AN
ESSENTIALLY FREE NETWORK (E.G., IP ADDRESS AND/OR AN INSTANT
MESSAGING SERVICE IDENTIFIER)

ONE OR MORE
ESSENTIALLY FREE (I.E., VERY
LOW COST) POTENTIAL NETWORK
CONNECTIONS HAVING PROPERTIES
INSUFFICIENT TO SERVE AS MEDIA
TRANSPORT CHANNELS (E.G.,
CONNECTIONS ESTABLISHED UTILIZING
INTERNET PROTOCOL WANS SUCH
AS THE INTERNET) TO WHICH COA-C
PROGRAM IS ALWAYS
"LISTENING"

154
A

132
USER C CLIENT
APPLICATION
PROGRAM

133
MEDIA TRANSPORT PART OF
TERMINAL ENTITY C (TALKS
TO MULTIPOINT CONTROLLER)

133



134
SIGNALING PART OF
TERMINAL ENTITY C

135
HUMAN "C"
MERELY USING
COMPUTER NOT
PARTICIPATING IN
CONFERENCE CALL

FIG. 9B

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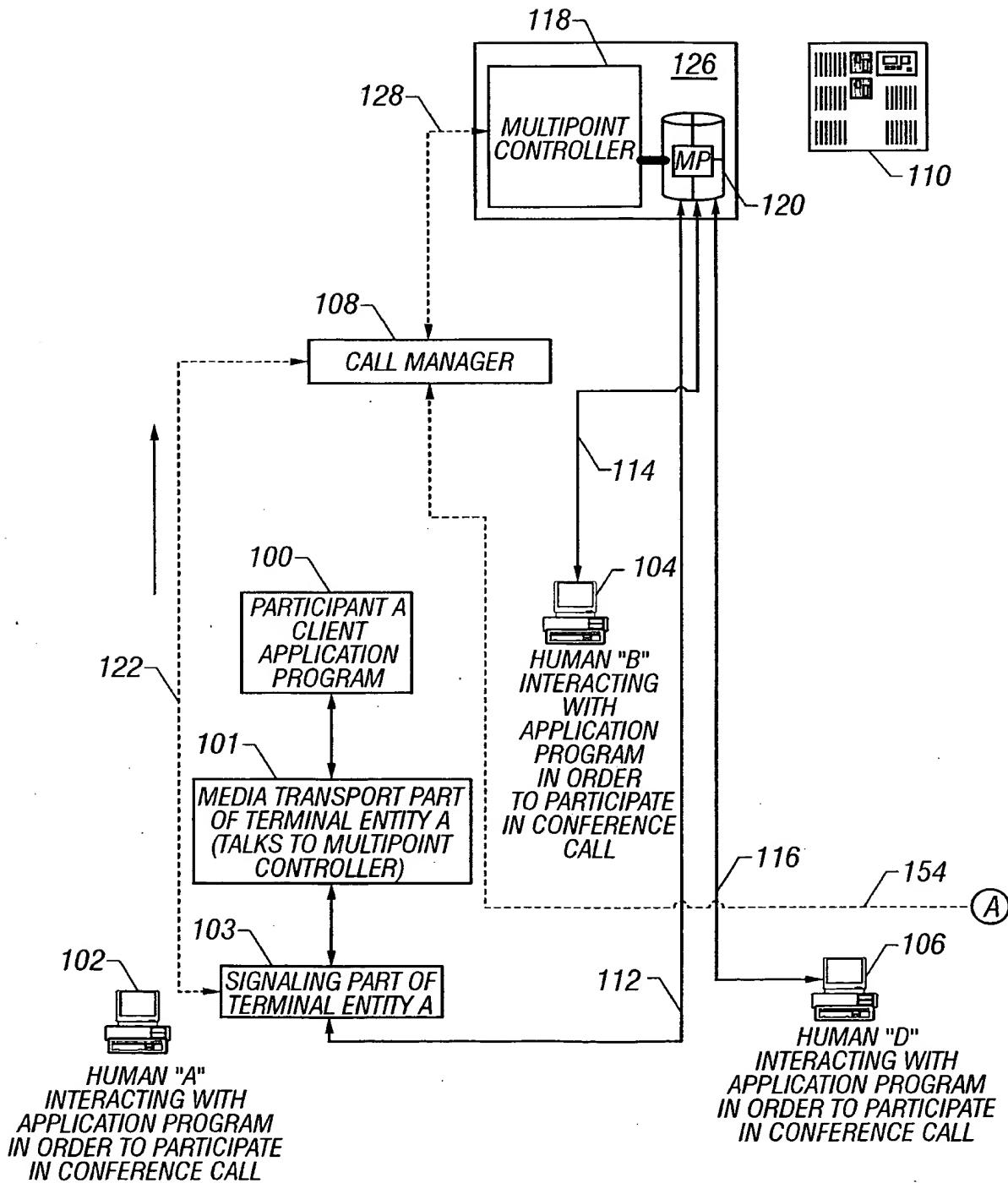


FIG. 10A

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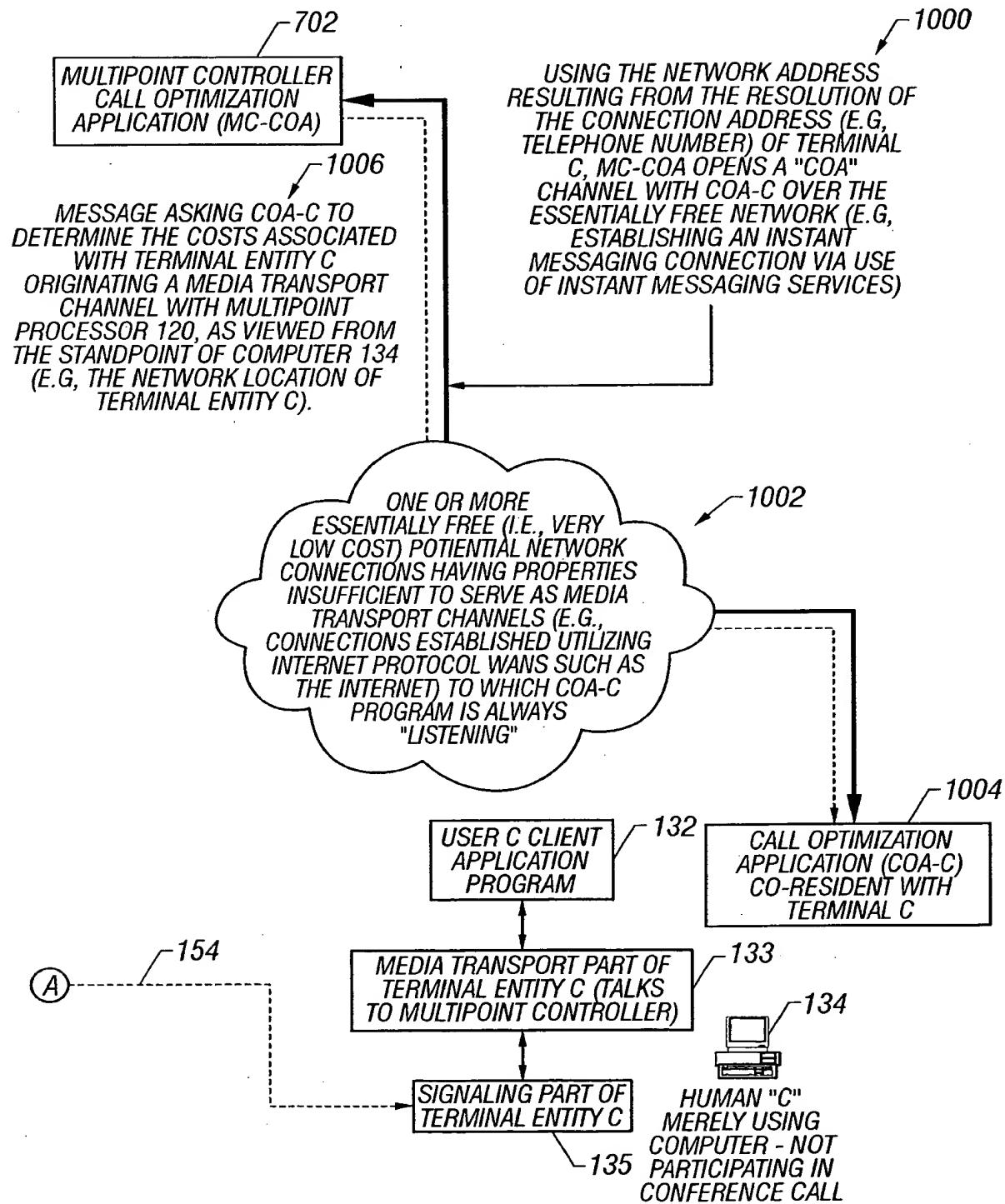


FIG. 10B

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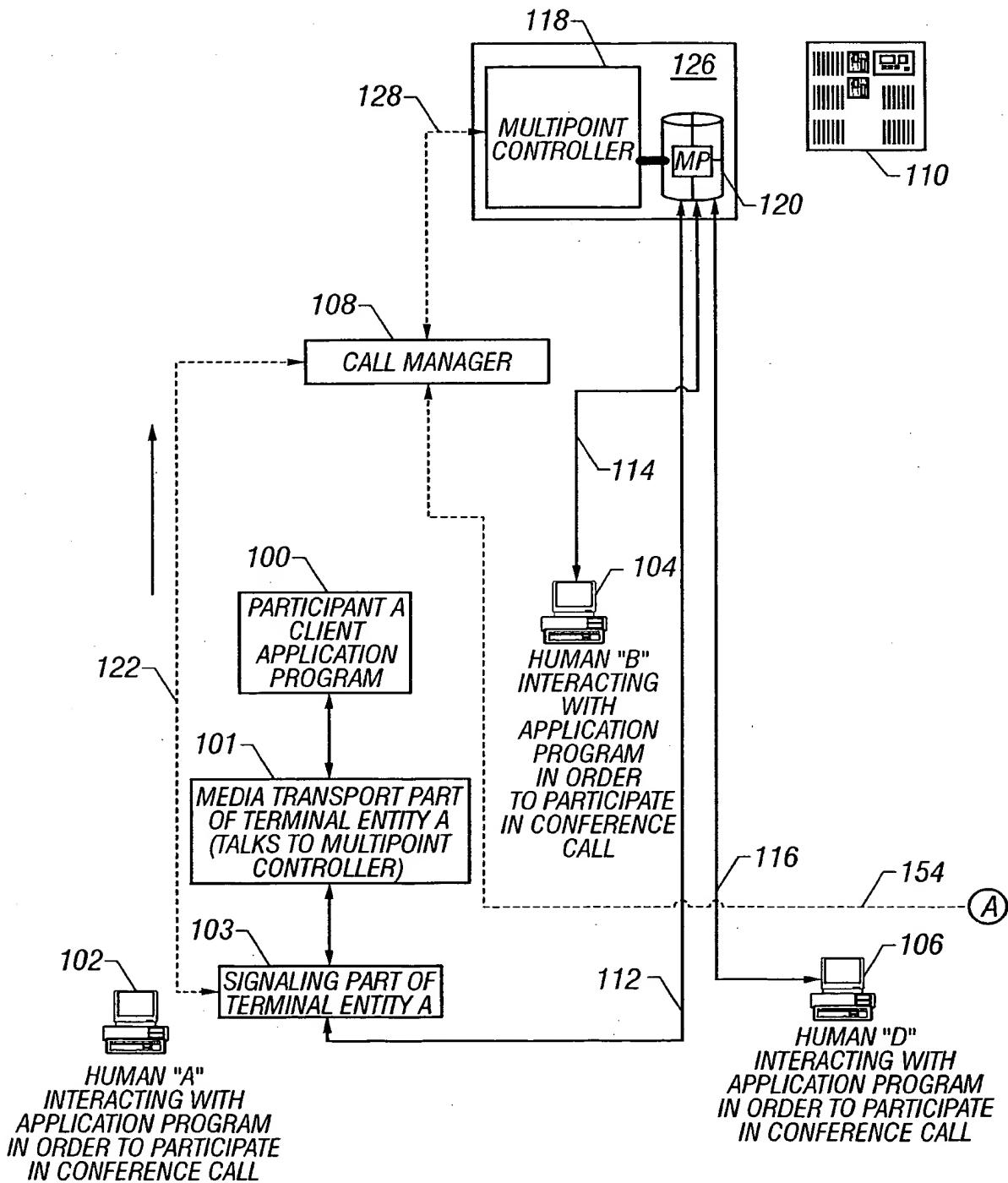


FIG. 11A

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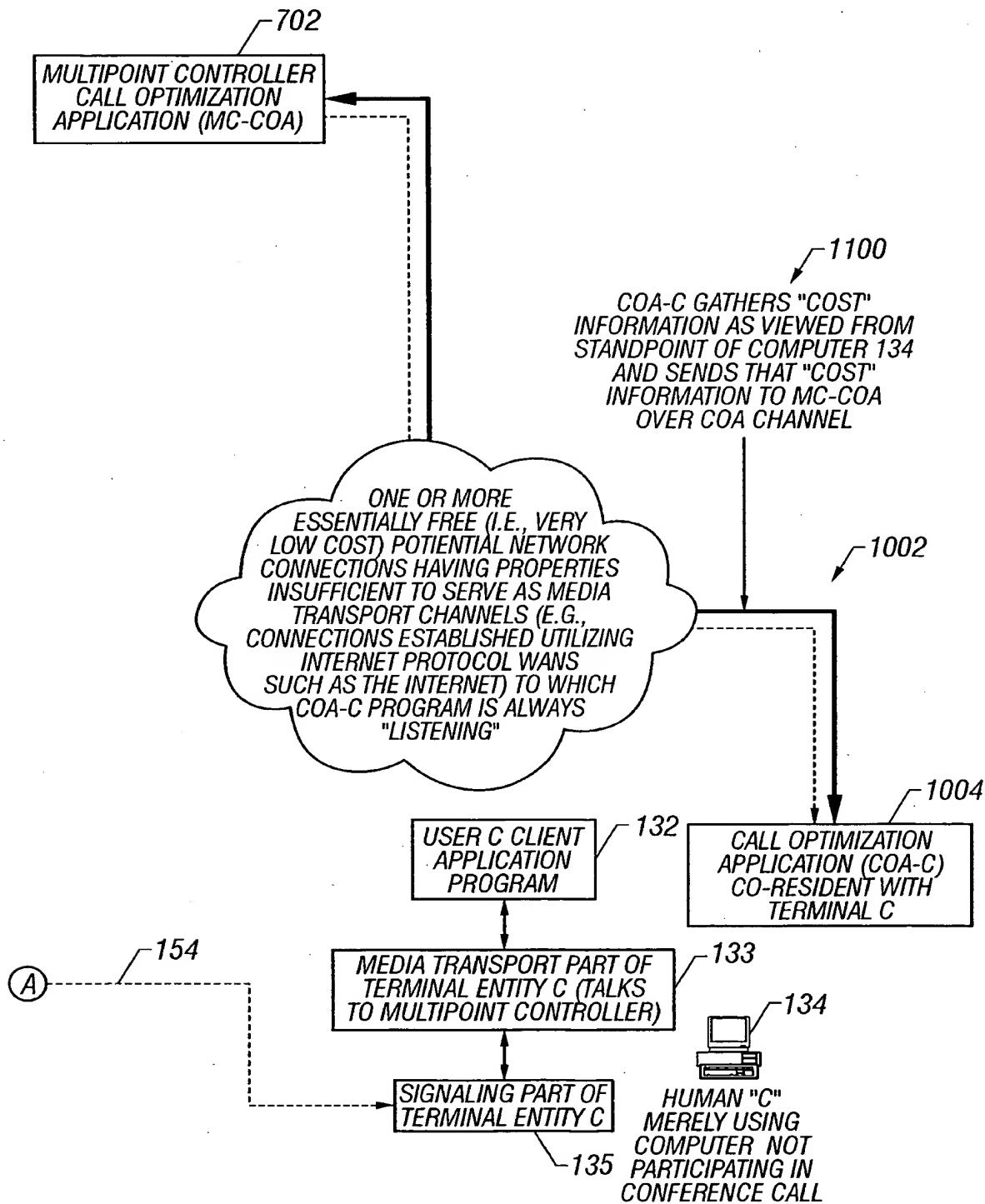


FIG. 11B

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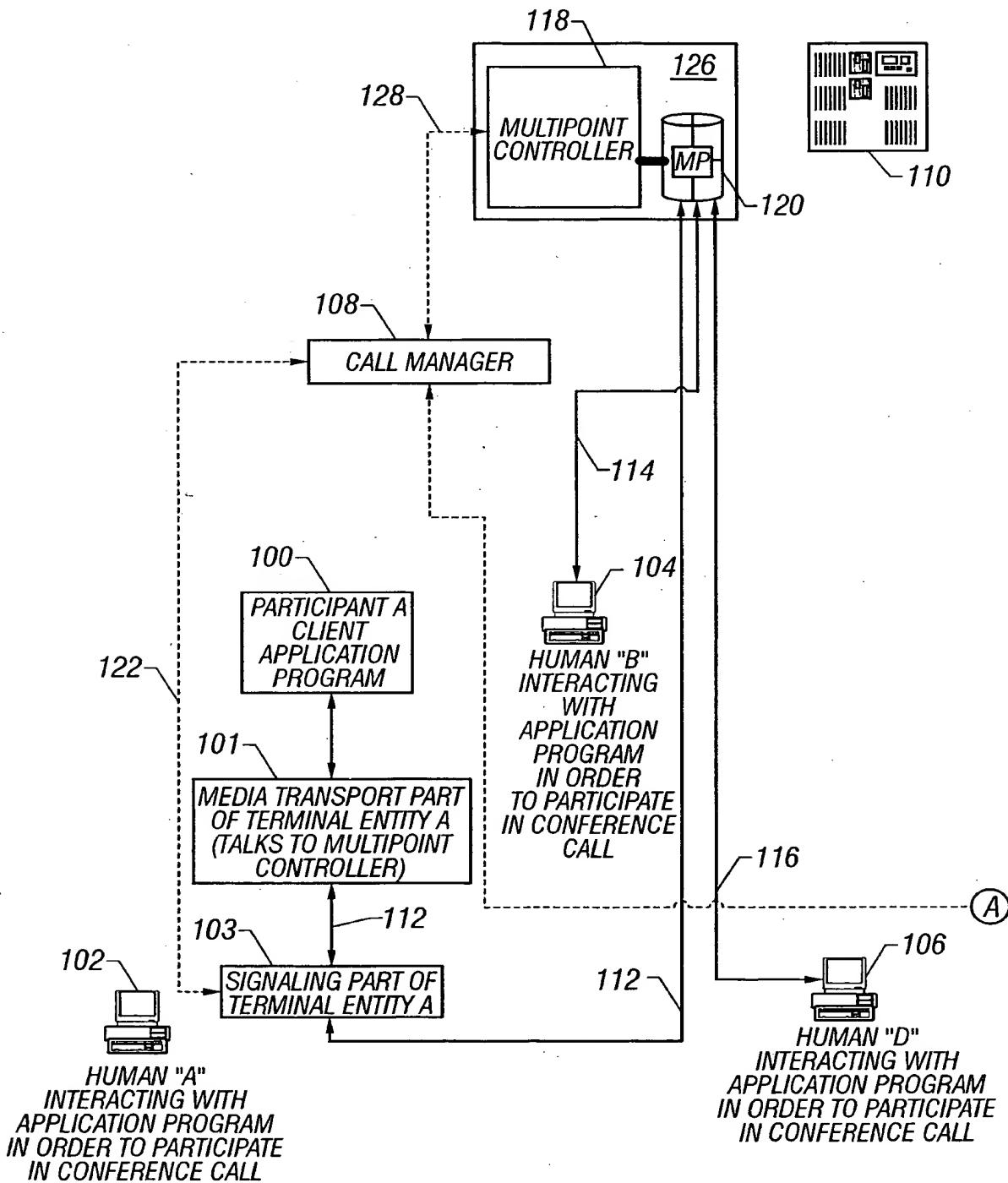


FIG. 12A

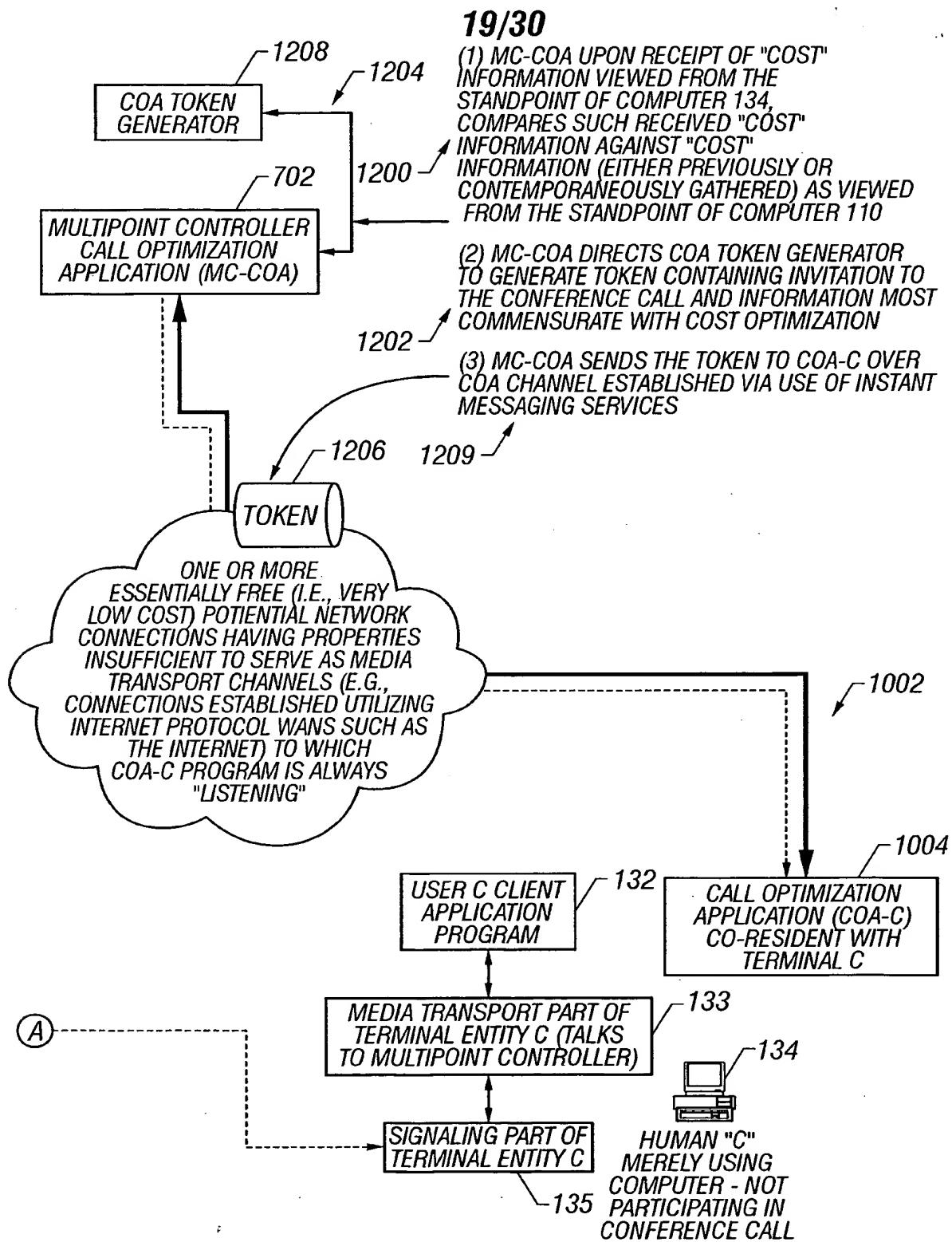


FIG. 12B

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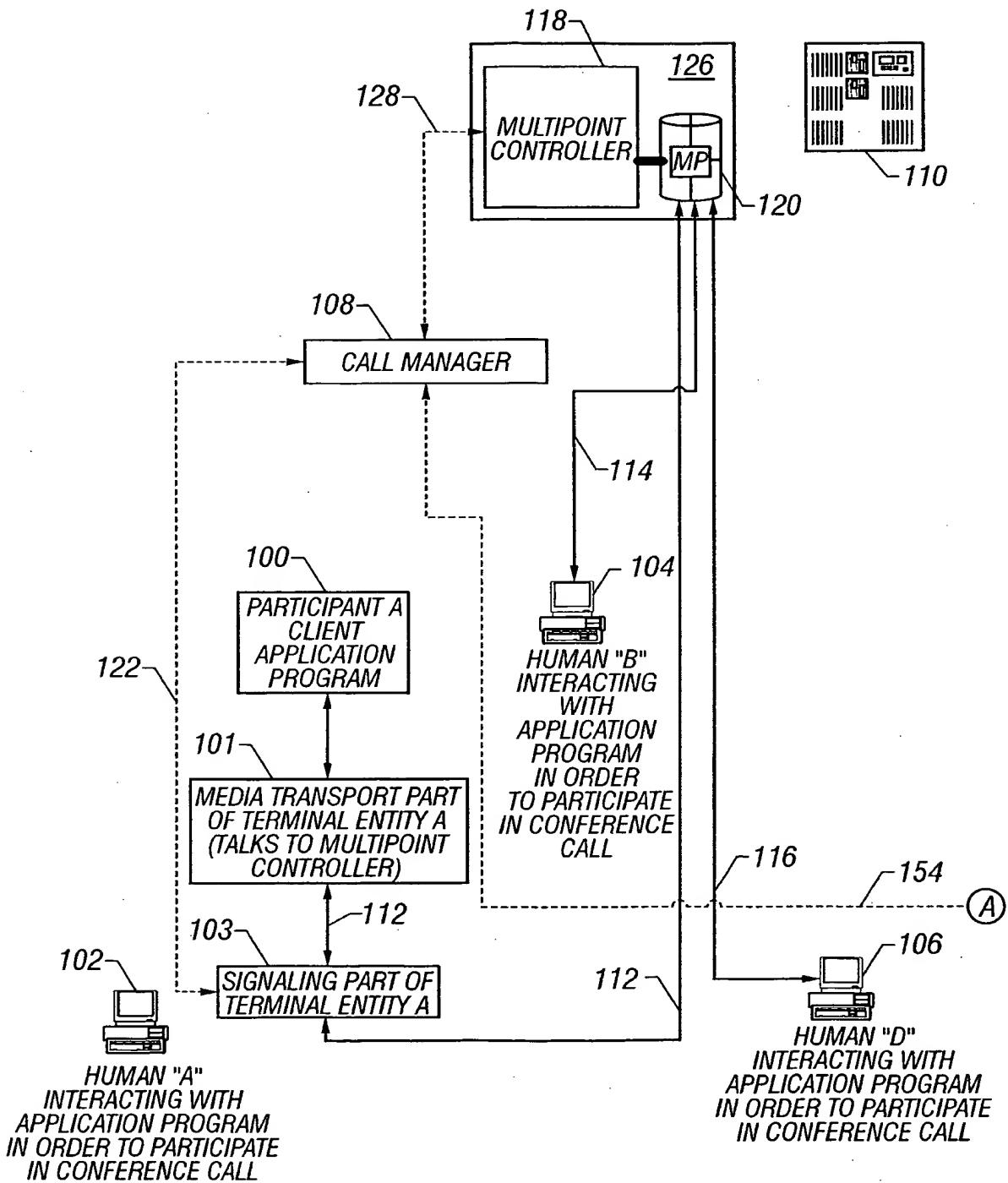


FIG. 13A

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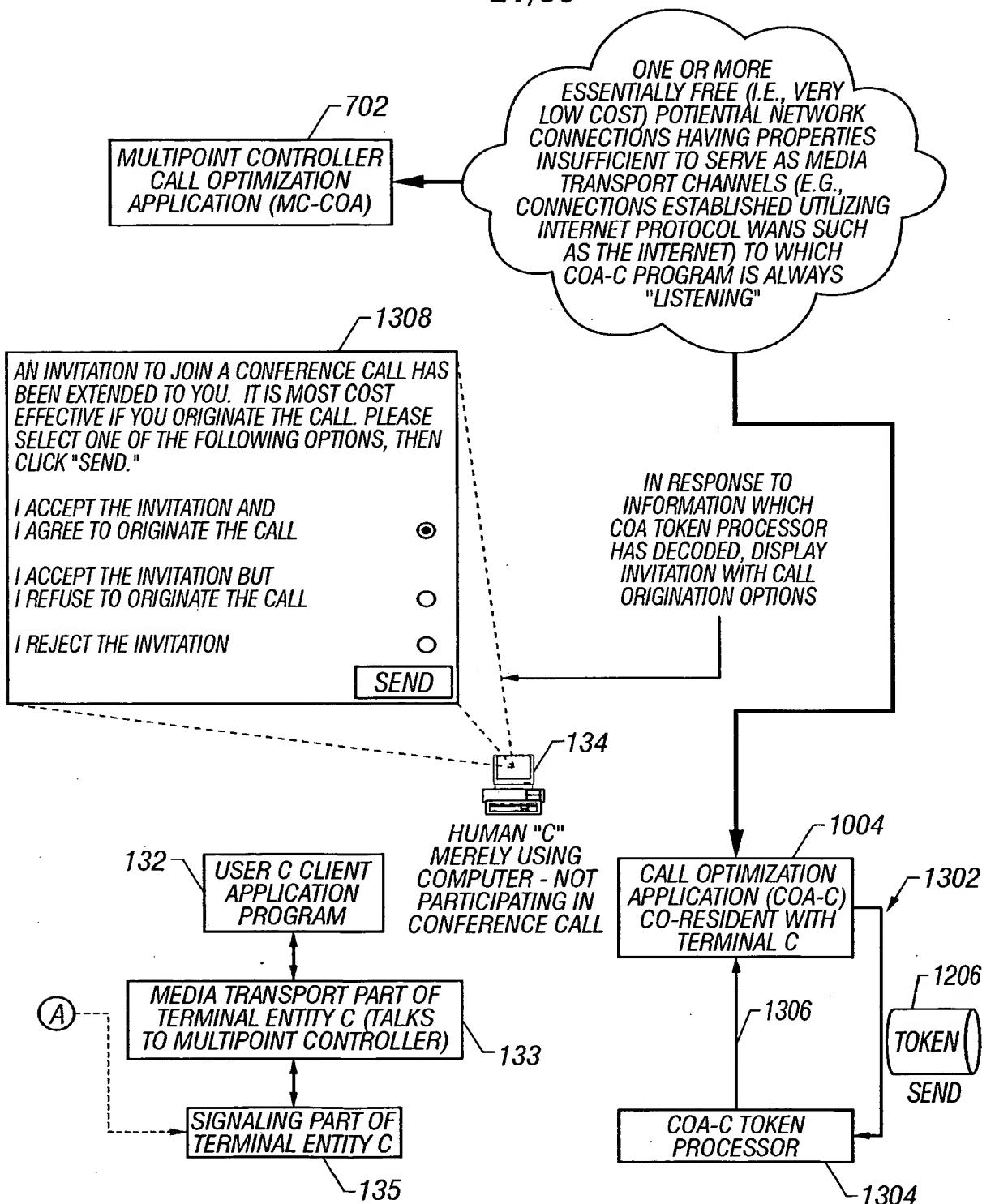


FIG. 13B

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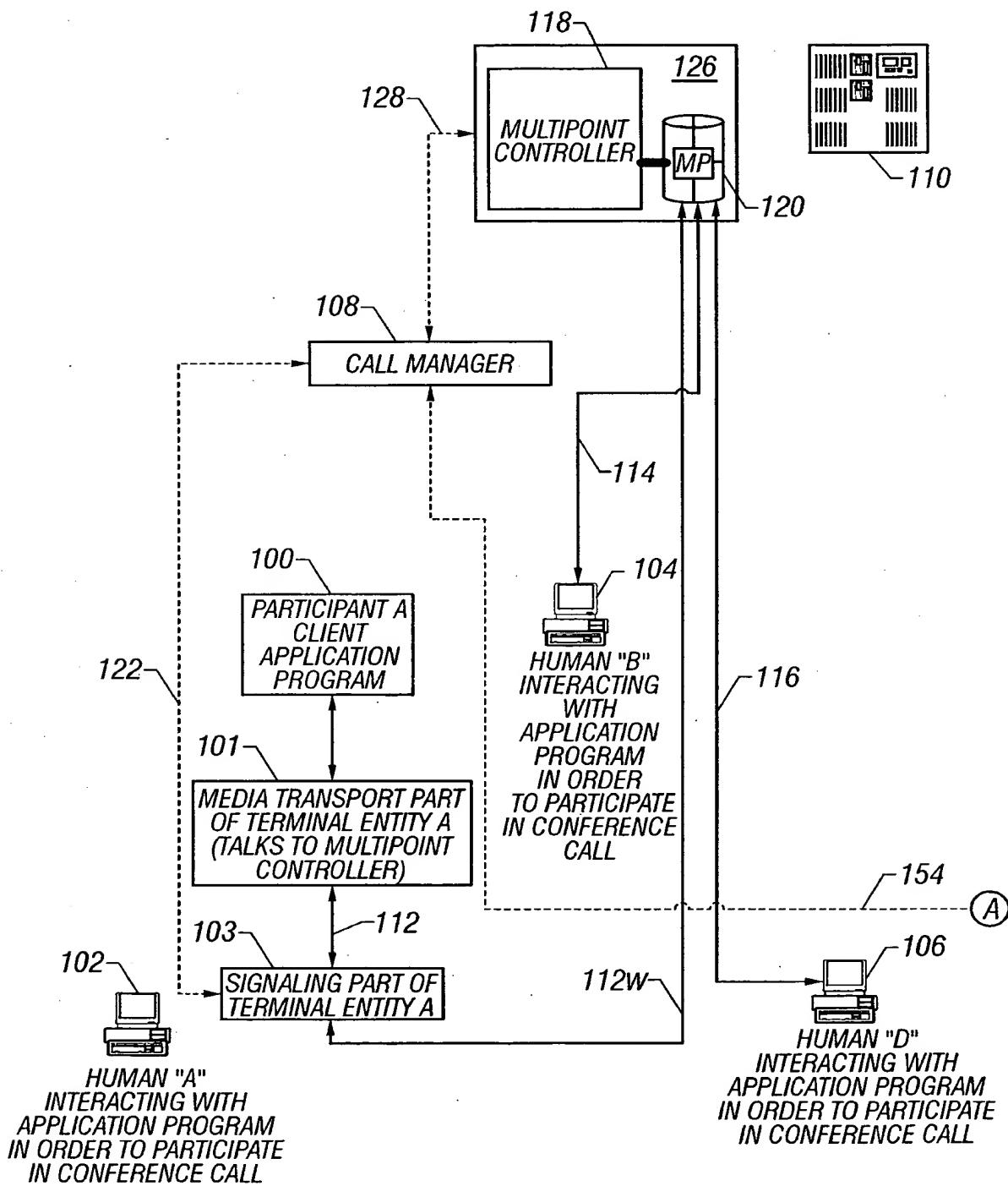


FIG. 14A

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COA-C SENDS BACK, OVER COA CHANNEL, THE COA TOKEN MODIFIED TO INDICATE WHEN HUMAN USER C HAS SELECTED IN THE WAY OF INVITATION ACCEPTANCE REJECTION AND COST OPTIMIZATION AS PRESENTED IN THE COA TOKEN ORIGINALLY SENT TO COA-C

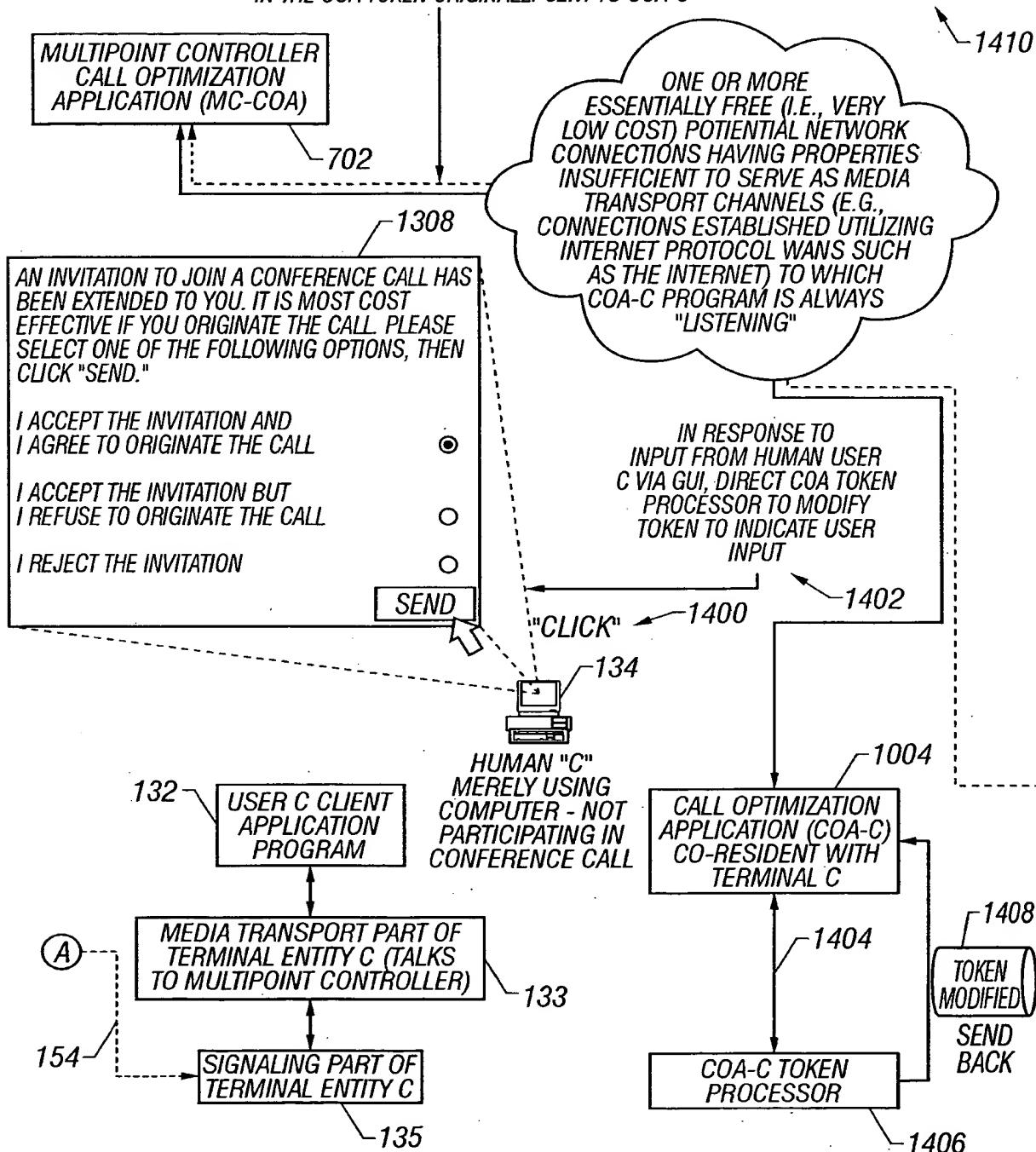
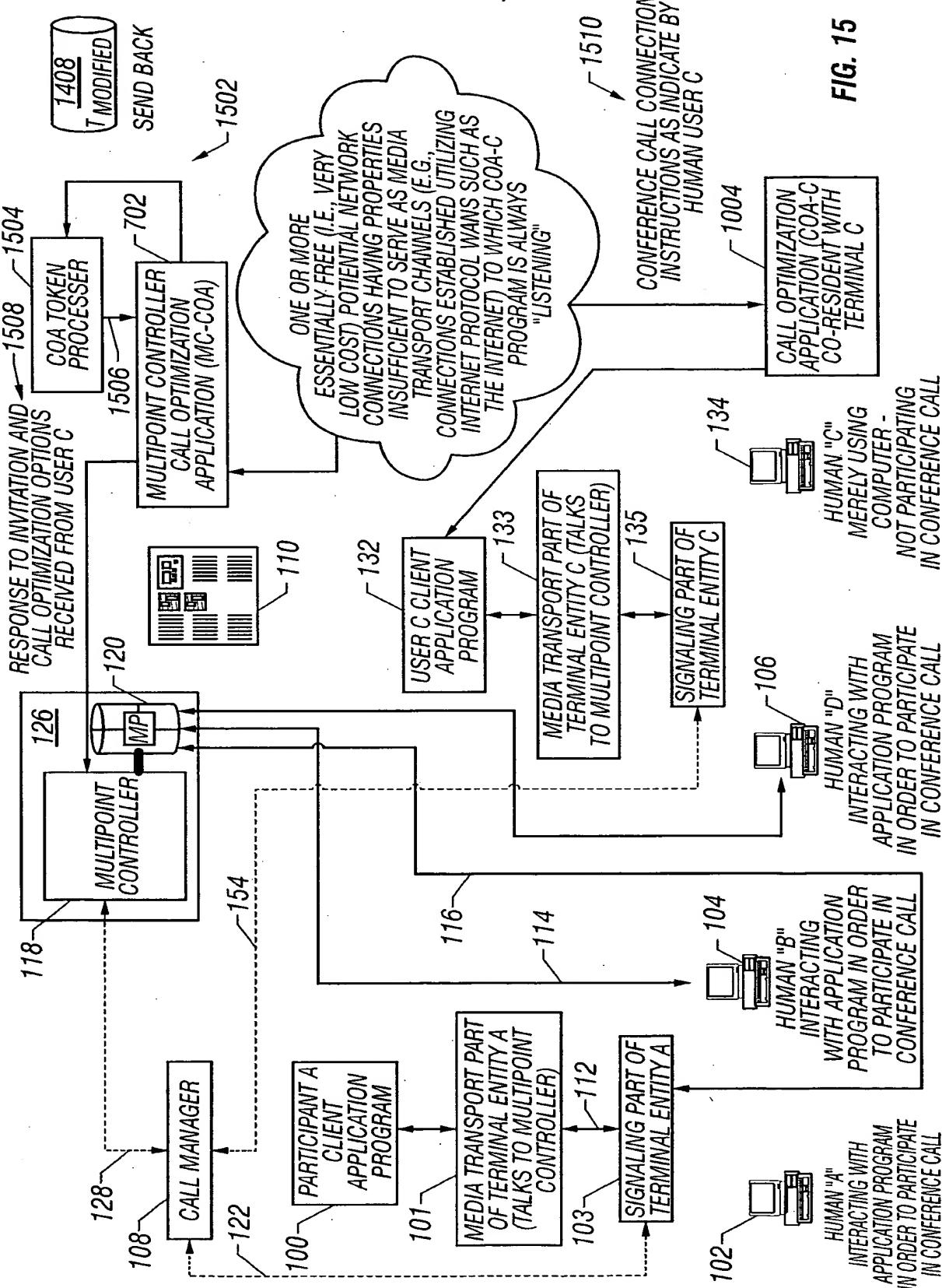
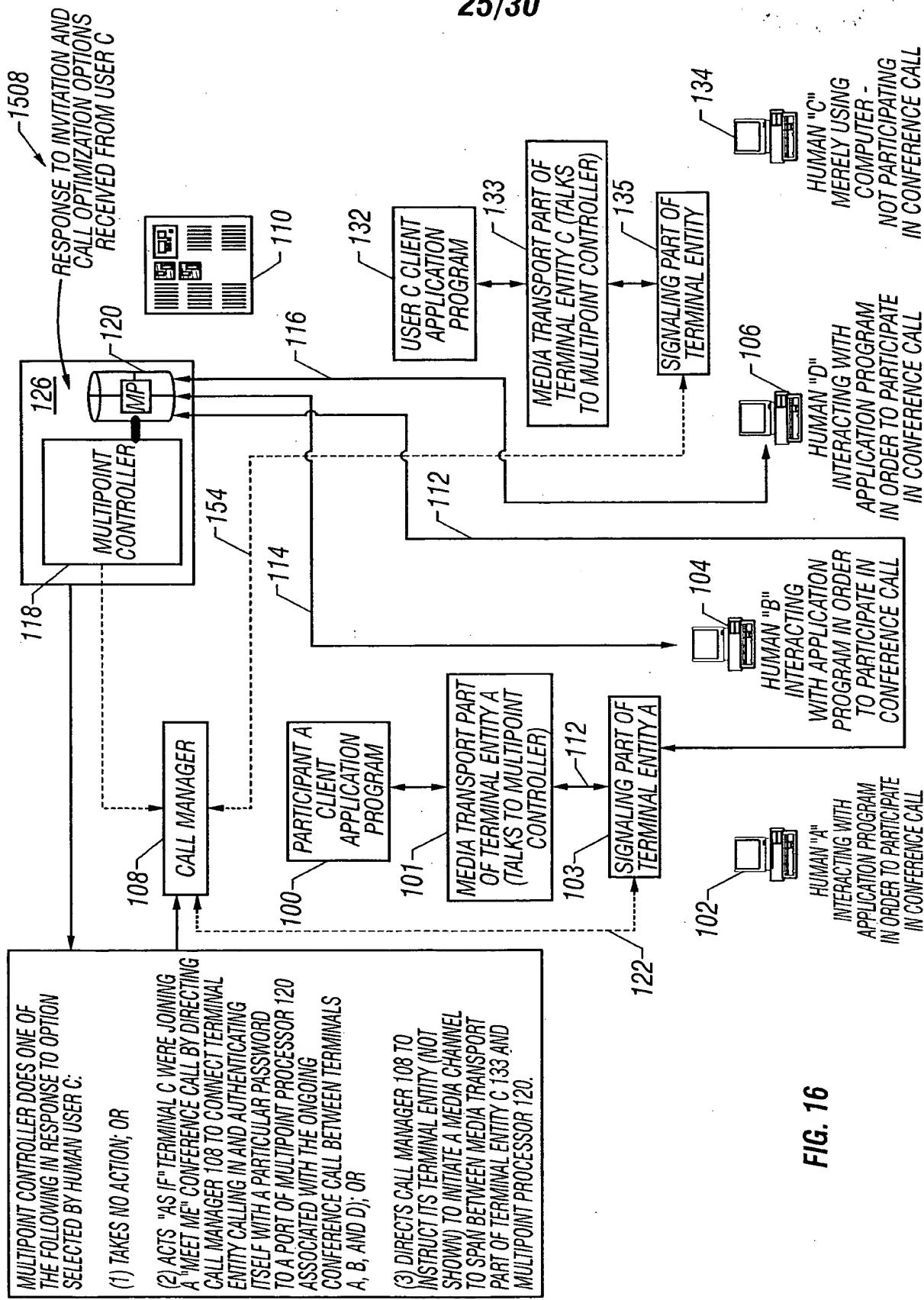


FIG. 14B

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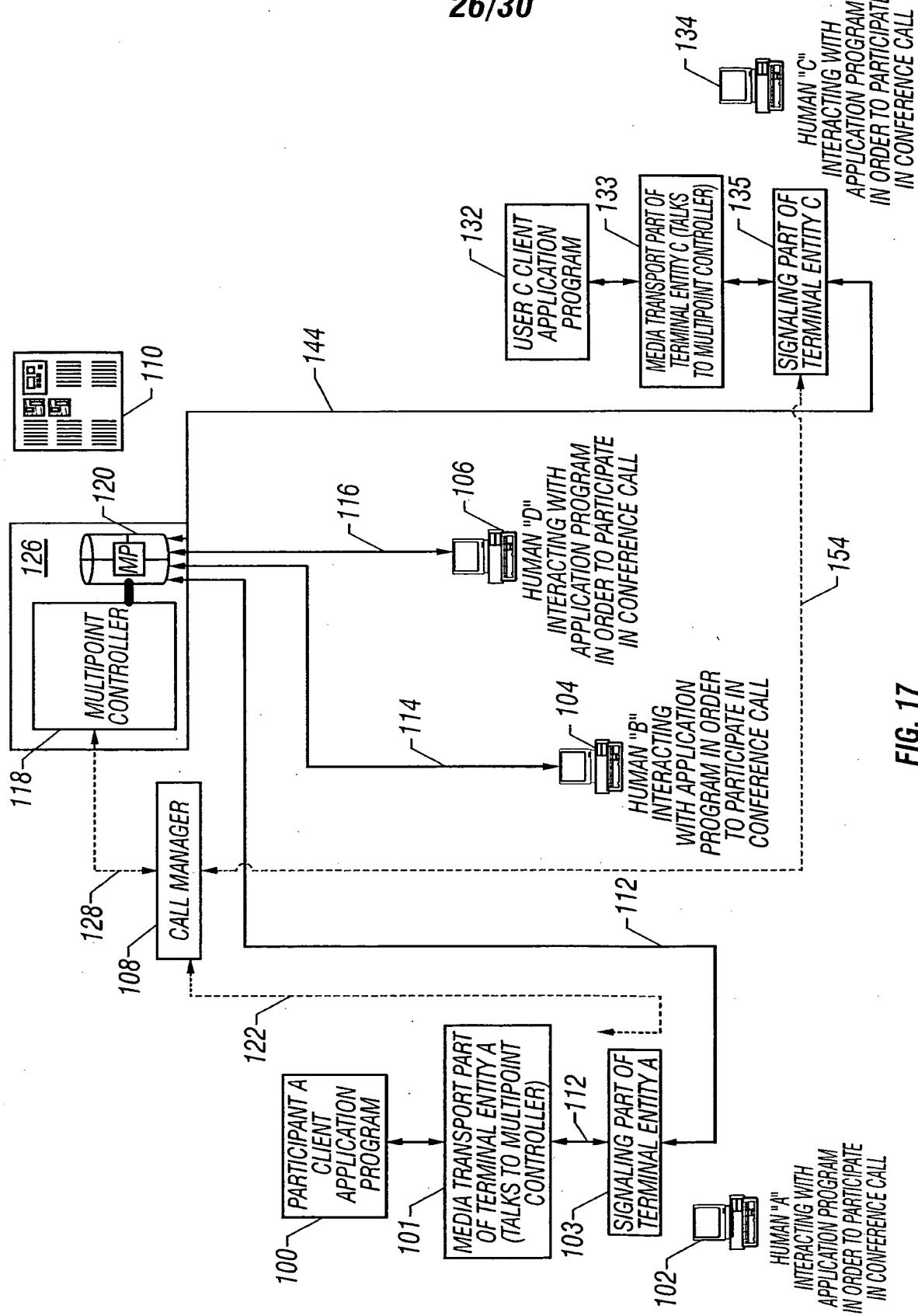


FIG. 17

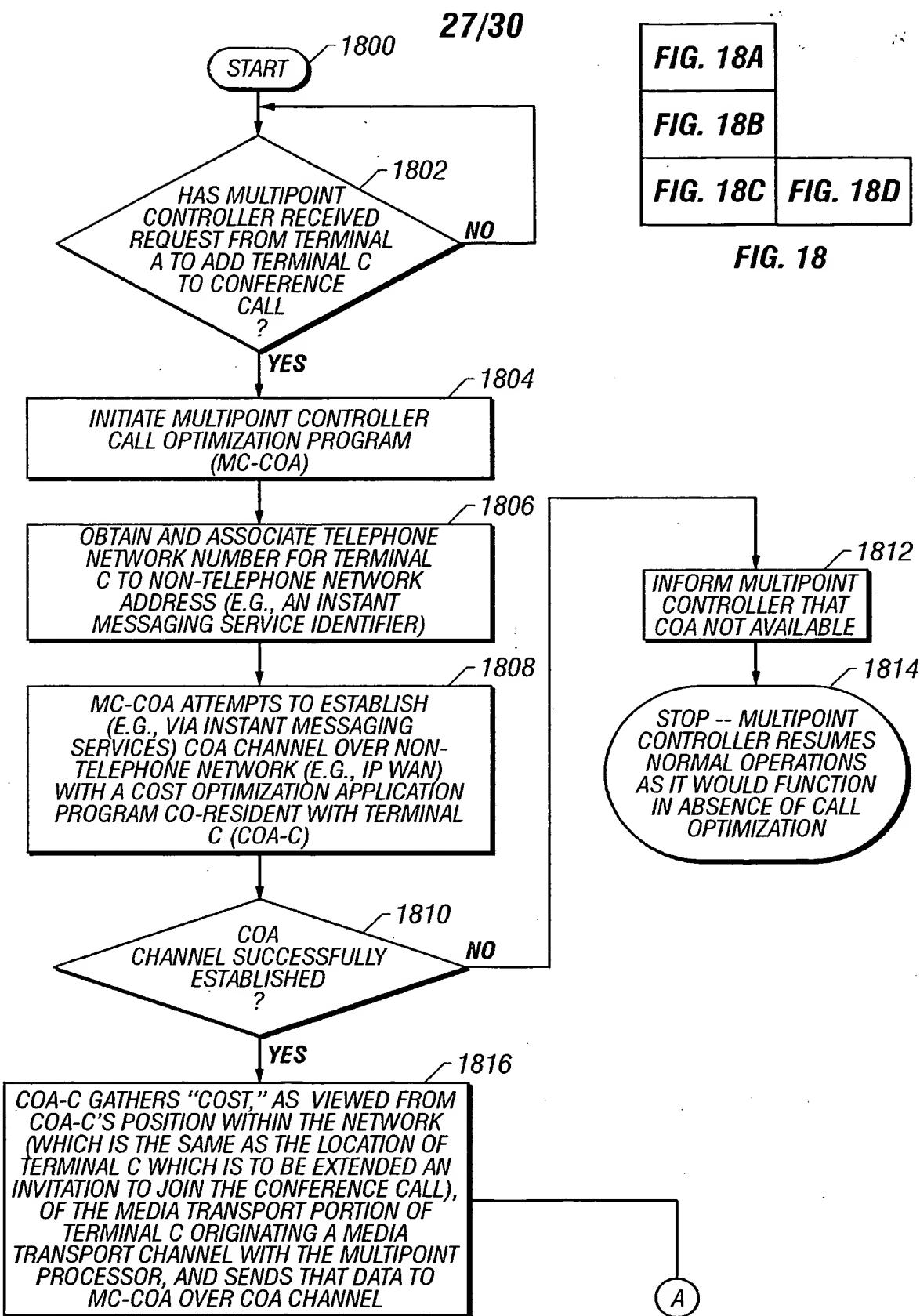


FIG. 18A

FIG. 18B

FIG. 18C

FIG. 18D

FIG. 18

(A)

FIG. 18A

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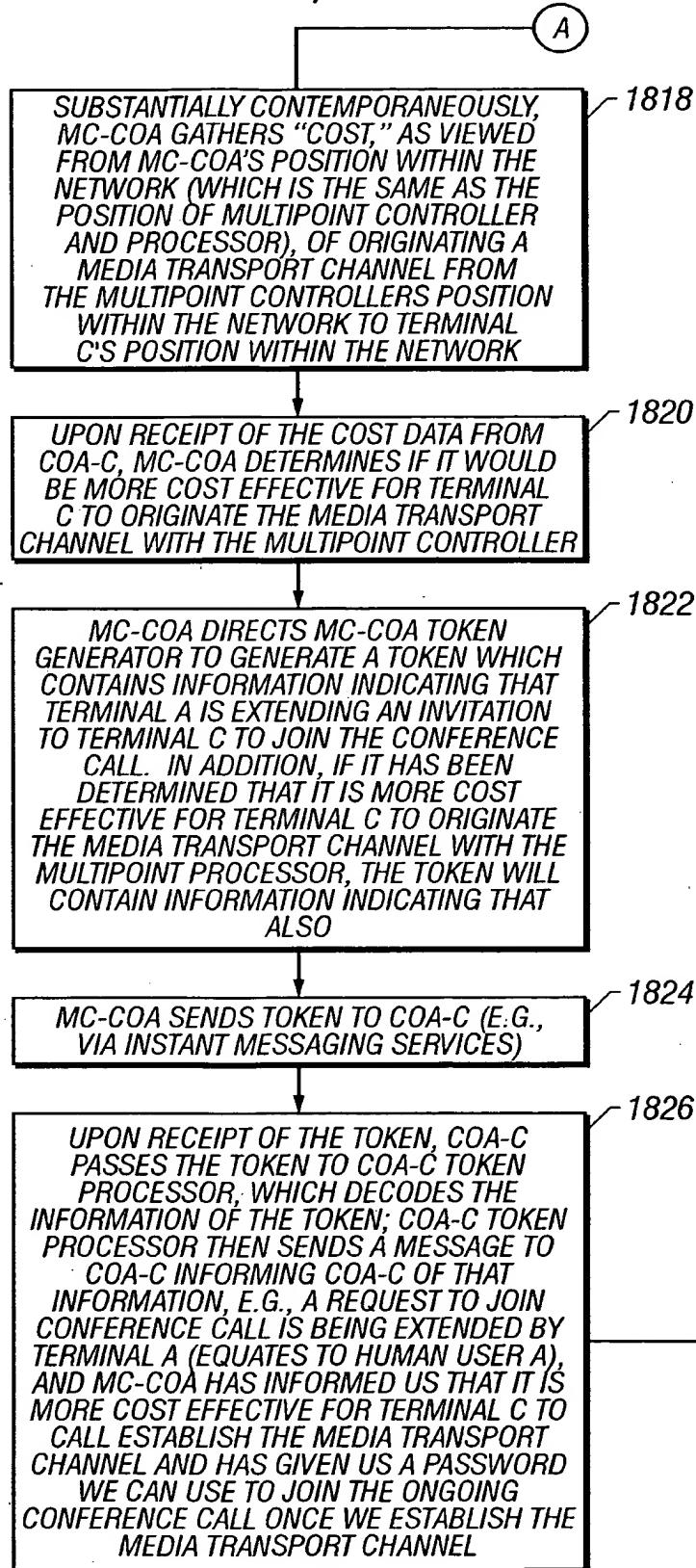


FIG. 18B

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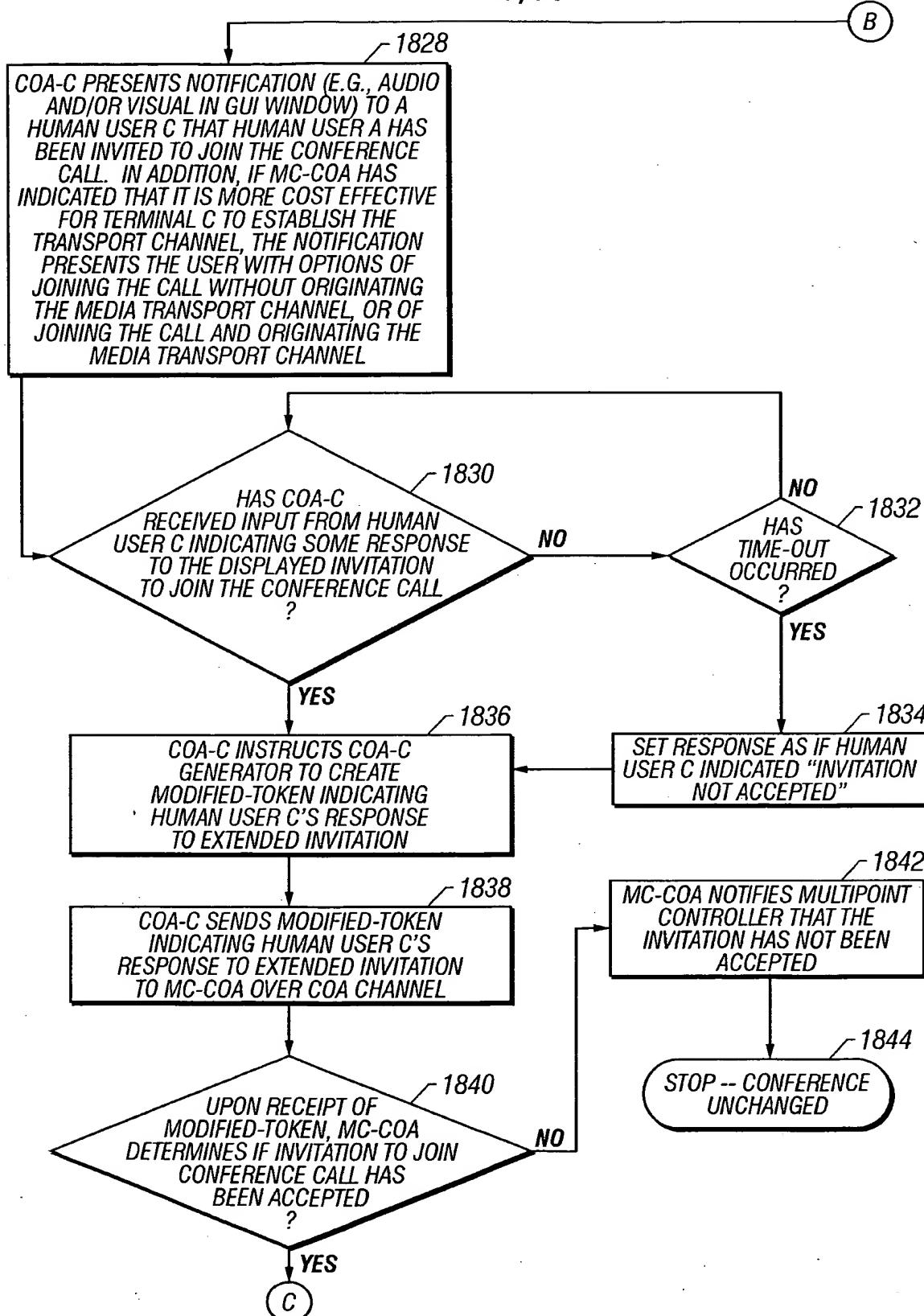


FIG. 18C

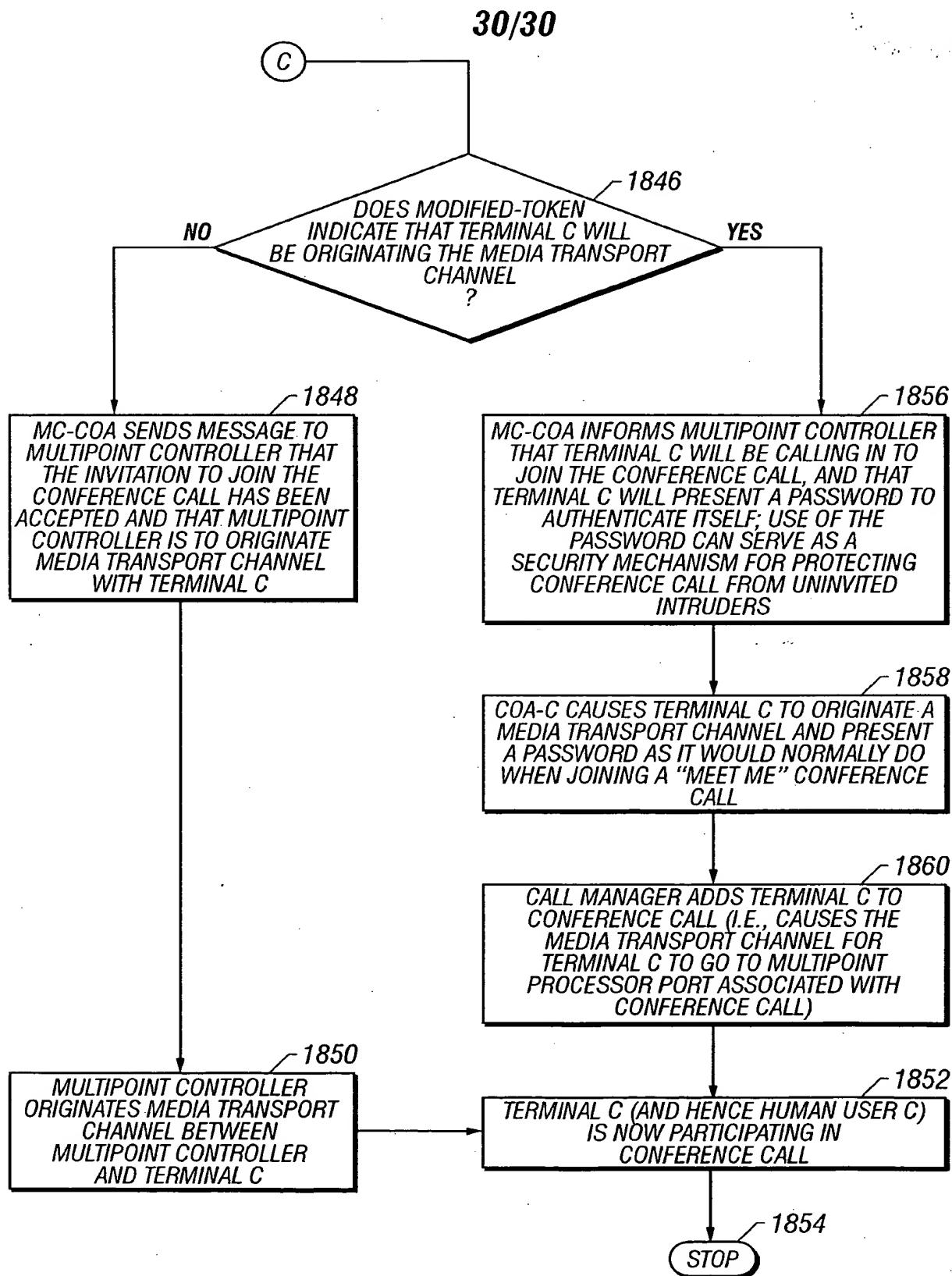


FIG. 18D